MATREYA LLC
Lipids and Biochemicals
2178 High Tech Road, State College, PA 16803
Tel. 814-355-1030 Fax 814-355-1031 www.matreya.com

Typical Fatty Acid Composition of Natural Lipids Made by Matreya LLC

(actual composition may vary according to dietary history and growth condition of the source)

	Lecithin, egg	Phosphatidyl ethanolamine, egg	*lyso*-Lecithin, egg	Phosphatidylserine, bovine	Phosphatidylinositol, plant, wheat germ	Sulfatides, bovine	Cerebrosides, bovine	Sphingomyelin, bovine	Phosphatidic acid, egg	Ceramides (mixture)
Catalog Number	**1044**	**1045**	**1046**	**1047**	**1048**	**1049**	**1050**	**1051**	**1053**	**1056**
Fatty Acids										
C14:0										
C16:0	31	17	72	1	42	trace	trace	4	39	trace
C16:1										
C18:0	16	29	24	42		5	4	40	12	4
C18:1	31	17	3	27	6	trace			34	
C18:2	16	11			47				15	
C18:3					5					
C20:0				1		1	1	3		1
C20:1				4						
C20:4		12		4						
C21:0										
C22:0				1		7	4	13		4
C22:1				1		trace				
C22:6				7						
C23:0							2	2		2
C24:0						18	10	9		10
C24:1						29	15	22		15
C25:0						2	3			9
C25:1						2	1			1
C26:0						1	2			2
C26:1						3	1			1
C27:0						1	2			2
C27:1							2			2
C14:0 2-OH										
C16:0 2-OH										
C18:0 2-OH						5	15			15
C20:0 2-OH						trace	1			1
C22:0 2-OH						3	6			6
C23:0 2-OH							5			5
C24:0 2-OH						10	17			17
C24:1 2-OH						6	6			
C25:0 2-OH						2	3			3
C25:1 2-OH										
C26:0 2-OH										
C26:1 2-OH										
C16 cis 9,10 methylene										
C18 cis 9,10 methylene										
Others	6	14	1	12	0	5	0	7	0	0
Total	100	100	100	100	100	100	100	100	100	100

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Typical Fatty Acid Composition of Natural Lipids Made by Matreya LLC (continued)

(actual composition may vary according to dietary history and growth condition of the source)

	Glucocerebrosides, Gaucher's spleen	Monogalactosyl Diglyceride, plant	Digalactosyl Diglyceride, plant	Monosialo ganglioside GM_1	Disialoganglioside GD_{1a}	Trisialoganglioside GT_{1b}	Gangliotetraosyl ceramide	Mixed Gangliosides, purified, bovine	Cerebroside; Kerasin (top spot)	Ceramide trihexosides
Catalog Number	**1057**	**1058**	**1059**	**1061**	**1062**	**1063**	**1064**	**1065**	**1066**	**1067**
Fatty Acids										
C14:0					1		trace	trace		
C16:0	26	23	9	2	1	1	1	1	trace	3
C16:1										
C18:0	9	77	91	90	89	87	86	86	5	2
C18:1						1	3	3		2
C18:2										
C18:3										
C20:0	5			3	2	4	4	4	1	2
C20:1										
C20:4										
C21:0										
C22:0	26			1	1	1	2	2	9	17
C22:1									trace	
C22:6										
C23:0	5					1	1	1	5	1
C24:0	22					1	1	1	25	29
C24:1	6			1		1	2	2	43	5
C25:0									3	
C25:1									3	
C26:0									2	
C26:1									4	
C27:0										
C27:1										
C14:0 2-OH										
C16:0 2-OH										
C18:0 2-OH										
C20:0 2-OH										
C22:0 2-OH										3
C23:0 2-OH										1
C24:0 2-OH										19
C24:1 2-OH										10
C25:0 2-OH										
C25:1 2-OH										
C26:0 2-OH										
C26:1 2-OH										
C16 cis 9,10 methylene										
C18 cis 9,10 methylene										
Others	1	0	0	3	6	3	0	0	0	6
Total	100	100	100	100	100	100	100	100	100	100

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	Globosides, porcine	Lecithin, bovine	Esterified Steryl Glucosides	Cerebroside; Phrenosin (bottom spot)	Phosphatidyl ethanolamine, plant	Ceramides (non-hydroxy)	Ceramides (hydroxy)	Sphingomyelin, porcine RBC	Sphingomyelin, buttermilk
Catalog Number	**1068**	**1070**	**1118**	**1138**	**1301**	**1322**	**1323**	**1328**	**1329**
Fatty Acids									
C14:0		trace							1
C16:0	2	35	34		22			25	14
C16:1		1							
C18:0	2	14	8		3	11		7	3
C18:1		33	8		7				
C18:2			36		60				
C18:3			4		8				
C20:0	2		1			2		3	1
C20:1									
C20:4									
C21:0									
C22:0	20		4			10		9	26
C22:1									
C22:6									
C23:0	2		2			6		1	30
C24:0	33		2			24		22	21
C24:1	5					31		22	3
C25:0						3			
C25:1						3			
C26:0	2					2			
C26:1						3			
C27:0									
C27:1									
C14:0 2-OH									
C16:0 2-OH									
C18:0 2-OH				36			24		
C20:0 2-OH				1			1		
C22:0 2-OH	4			8			8		
C23:0 2-OH				6			6		
C24:0 2-OH	19			25			35		
C24:1 2-OH	9			9			17		
C25:0 2-OH				4			4		
C25:1 2-OH				2					
C26:0 2-OH				2					
C26:1 2-OH				2			2		
C16 cis 9,10 methylene									
C18 cis 9,10 methylene									
Others	0	17	1	5	0	5	3	11	1
Total	100	100	100	100	100	100	100	100	100

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	Sphingomyelin, egg	Phosphatidylinositol, plant, soy	Lactosylceramides	Disialoganglioside GD_{1b}, bovine	Monosialoganglioside GM_2	Monosialoganglioside GM_3	Disialoganglioside GD_3, buttermilk	Lactosylceramides buttermilk	Ceramide trihexosides (top spot)
Catalog Number	**1332**	**1336**	**1500**	**1501**	**1502**	**1503**	**1504**	**1507**	**1513**
Fatty Acids									
C14:0	trace			trace					
C16:0	72	32	14	1	2	6	8	12	1
C16:1									
C18:0	8	7	6	86	82	1	1	1	1
C18:1	3	7	4	3					
C18:2		47							
C18:3		6							
C20:0	2		1	4	7	1	1	1	2
C20:1									
C20:4									
C21:0						1	2		
C22:0	5		9	2	4	23	24	25	22
C22:1									
C22:6									
C23:0	1		1	1	trace	36	35	36	2
C24:0	2		15	1	1	22	21	21	58
C24:1	4		5	2	2	3	3		7
C25:0								1	1
C25:1									
C26:0									5
C26:1									
C27:0									
C27:1									
C14:0 2-OH									
C16:0 2-OH									
C18:0 2-OH			trace						
C20:0 2-OH									
C22:0 2-OH			8						
C23:0 2-OH									
C24:0 2-OH			24						
C24:1 2-OH			13						
C25:0 2-OH									
C25:1 2-OH									
C26:0 2-OH									
C26:1 2-OH									
C16 cis 9,10 methylene									
C18 cis 9,10 methylene									
Others	3	1	0	0	2	7	5	3	1
Total	100	100	100	100	100	100	100	100	100

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	Ceramide trihexosides (bottom spot)	Tetrasialoganglioside GQ_{1b}	Glucocerebrosides, buttermilk	Glucocerebrosides, plant	Mixed Gangliosides, purified, porcine	Fucosylated monosialoganglioside GM_1	Disialoganglioside GD_2	Monosialoganglioside GM_4
Catalog Number	**1514**	**1516**	**1521**	**1522**	**1525**	**1526**	**1527**	**1535**
Fatty Acids								
C14:0								
C16:0	3	5	7		1	8	1	4
C16:1		1						
C18:0		80	2		87	2	89	2
C18:1		2						
C18:2		3						
C18:3								
C20:0		4	1		4	13	7	trace
C20:1								trace
C20:4								
C21:0			1					
C22:0	2	2	27		1	43	1	3
C22:1								4
C22:6								
C23:0			36		1	3	1	4
C24:0	3		23		1	26		6
C24:1					2	5	1	4
C25:0			1					
C25:1								
C26:0								
C26:1								
C27:0								
C27:1								
C14:0 2-OH				trace				
C16:0 2-OH				79				
C18:0 2-OH	1			trace				1
C20:0 2-OH	1							3
C22:0 2-OH	11			8				25
C23:0 2-OH	1			1				17
C24:0 2-OH	52			9				18
C24:1 2-OH	25							7
C25:0 2-OH								
C25:1 2-OH								
C26:0 2-OH								
C26:1 2-OH								
C16 cis 9,10 methylene								
C18 cis 9,10 methylene								
Others	1	3	2	3	3			2
Total	100	100	100	100	100	100	100	100